

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL010925

Review By	Mahesh Dadoda	Review On	1/10/2025 7:23:31 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/10/2025 7:26:28 AM		
SubDirectory	VL010925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL010925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2570			
Initial Calibration Stds		AP2566,AP2567,AP2568			
CCC		AP2566			
Internal Standard/PEM		AP2570			
ICV/I.BLK		AO2564			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041857.D	09 Jan 2025 09:48	SY/MD	Ok
2	VSTDIC0.5	VL041858.D	09 Jan 2025 10:33	SY/MD	Not Ok
3	VSTDICCC010	VL041859.D	09 Jan 2025 11:19	SY/MD	Ok,M
4	VSTDIC002	VL041860.D	09 Jan 2025 11:52	SY/MD	Ok,M
5	VSTDIC001	VL041861.D	09 Jan 2025 12:22	SY/MD	Ok,M
6	VSTDIC0.5	VL041862.D	09 Jan 2025 12:53	SY/MD	Ok,M
7	VSTDIC0.1	VL041863.D	09 Jan 2025 13:24	SY/MD	Ok,M
8	VSTDIC0.03	VL041864.D	09 Jan 2025 13:54	SY/MD	Ok,M
9	VSTDIC015	VL041865.D	09 Jan 2025 14:27	SY/MD	Ok,M
10	VSTDICV010	VL041866.D	09 Jan 2025 15:15	SY/MD	Ok,M
11	VL0109ABL01	VL041867.D	09 Jan 2025 16:00	SY/MD	Ok
12	VL0109ABL02	VL041868.D	09 Jan 2025 16:31	SY/MD	Ok
13	VL0109ABL03	VL041869.D	09 Jan 2025 17:01	SY/MD	Ok
14	VL0109ABS01	VL041870.D	09 Jan 2025 17:32	SY/MD	Ok,M
15	VIBLK	VL041871.D	09 Jan 2025 18:02	SY/MD	Ok
16	Q1037-01	VL041872.D	09 Jan 2025 18:37	SY/MD	Ok,M
17	Q1037-02	VL041873.D	09 Jan 2025 19:10	SY/MD	Ok,M
18	Q1037-03	VL041874.D	09 Jan 2025 19:43	SY/MD	Ok,M
19	Q1037-03DUP	VL041875.D	09 Jan 2025 20:16	SY/MD	Ok,M
20	QC010725 CAN 10601	VL041876.D	09 Jan 2025 20:46	SY/MD	Ok
21	MDL 0.4	VL041877.D	09 Jan 2025 21:16	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL010925

Review By	Maresh Dadoda	Review On	1/10/2025 7:23:31 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/10/2025 7:26:28 AM		
SubDirectory	VL010925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL010925AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2570				
Initial Calibration Stds	AP2566,AP2567,AP2568				
CCC	AP2566				
Internal Standard/PEM	AP2570				
ICV/I.BLK	AO2564				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	MDL 0.4	VL041878.D	09 Jan 2025 21:46	SY/MD	Ok,M
23	MDL 0.4	VL041879.D	09 Jan 2025 22:17	SY/MD	Ok,M
24	MDL 0.1	VL041880.D	09 Jan 2025 22:47	SY/MD	Ok,M
25	MDL 0.1	VL041881.D	09 Jan 2025 23:17	SY/MD	Ok,M
26	MDL 0.1	VL041882.D	09 Jan 2025 23:47	SY/MD	Ok,M
27	MDL 0.03	VL041883.D	10 Jan 2025 00:17	SY/MD	Ok,M
28	MDL 0.03	VL041884.D	10 Jan 2025 00:47	SY/MD	Ok,M
29	MDL 0.03	VL041885.D	10 Jan 2025 01:18	SY/MD	Ok,M
30	VSTDCCC010	VL041886.D	10 Jan 2025 01:48	SY/MD	Ok,M

M : Manual Integration

Process Report

Order ID : Q1668

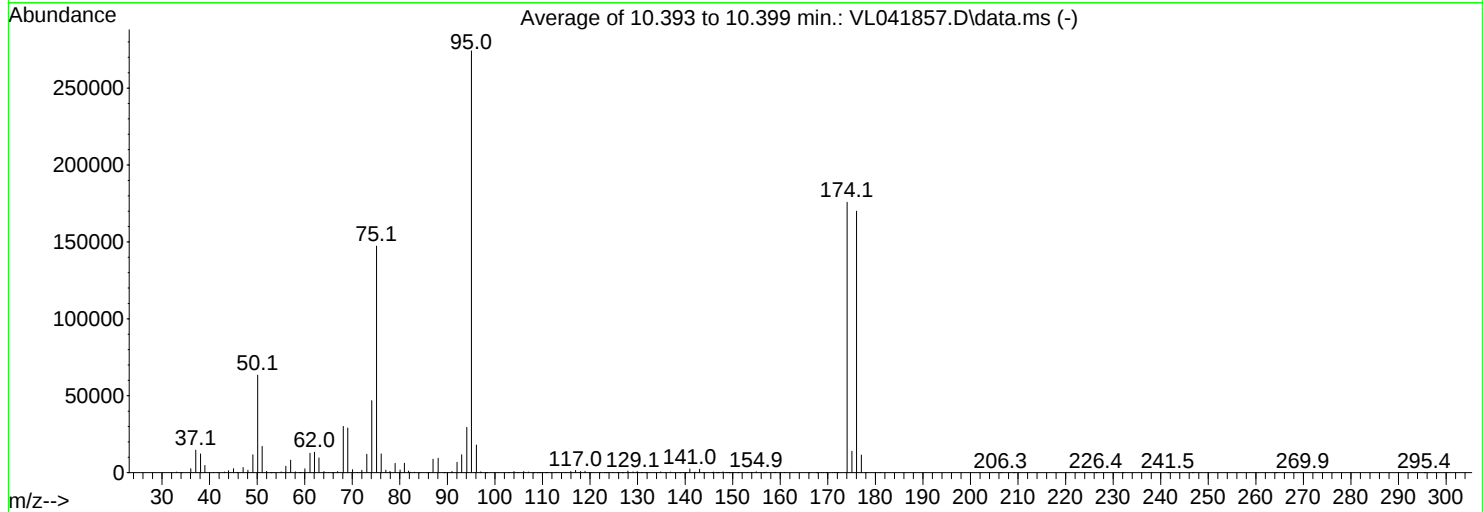
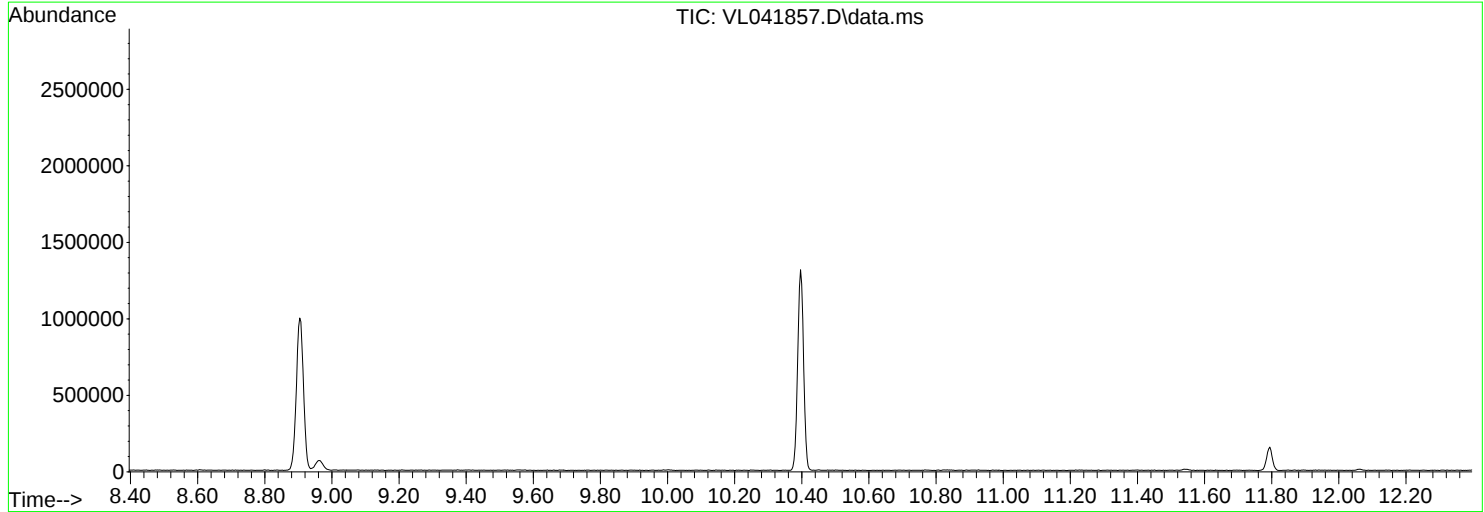
Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/31/2025	B2502051	Q1668-04	-4.7	10601	6 L	10110		C2501002	VL041876.D Seq :VL010925 TUNE : VL041857.D ICAL : VL041864.D CCAL : VL041859.D MB : VL041869.D
03/31/2025	B2502051	Q1668-01	-5.9	10588	6 L	10637		C2501004	VL041966.D Seq :VL020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
03/31/2025	B2502051	Q1668-02	-5.5	10269	6 L	10529		C2502002	VL042052.D Seq :VL022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
03/31/2025	B2502051	Q1668-03	-5.5	10060	6 L	10610		C2503001	VL042143.D Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041857.D
Acq On : 09 Jan 2025 09:48
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Jan 10 00:31:30 2025



AutoFind: Scans 3184, 3185, 3186; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.1	63467	PASS
75	95	30	66	53.7	147285	PASS
95	95	100	100	100.0	274227	PASS
96	95	5	9	6.6	18052	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	64.1	175765	PASS
175	174	4	9	7.9	13949	PASS
176	174	93	101	96.7	170005	PASS
177	176	5	9	6.7	11408	PASS

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL010925AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Fri Jan 10 00:31:30 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL041864.D 0.1 =VL041863.D 0.5 =VL041862.D 1 =VL041861.D 2 =VL041860.D 10 =VL041859.D 15 =VL041865.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.790	1.746	1.644	1.508	1.521	1.642	7.77
3) Chlorodifluoro...			1.980	1.875	1.875	1.648	1.638	1.803	8.46
4) Chloromethane			0.661	0.675	0.683	0.571	0.601	0.638	7.73
5) T Vinyl Chloride	0.889	0.745	0.671	0.653	0.628	0.576	0.589	0.679	15.97
6) T Bromomethane			0.390	0.315	0.337	0.265	0.293	0.320	14.78
7) Chloroethane			0.288	0.282	0.273	0.229	0.243	0.263	9.74
8) T Dichlorotetra...			1.495	1.443	1.541	1.306	1.353	1.427	6.83
9) T Propene			0.941	0.917	0.856	0.747	0.747	0.841	10.88
10) T Heptane			2.468	2.322	2.271	2.021	2.012	2.219	8.94
11) T Trichlorofluor...			1.818	1.734	1.794	1.485	1.607	1.687	8.28
12) T 1,1,2-Trichlor...			1.480	1.405	1.442	1.207	1.291	1.365	8.30
13) Ethanol			0.074	0.060	0.062	0.035	0.036	0.053	32.34
14) T Bromoethene			0.534	0.482	0.522	0.437	0.468	0.489	8.15
15) T Acetone			2.132	1.970	1.818	1.220	1.293	1.687	24.25
16) T 1,3-Butadiene			0.982	0.742	0.710	0.574	0.615	0.724	21.97
17) tert-Butyl alc...			2.095	2.023	1.995	1.708	1.746	1.914	9.12
18) T 1,1-Dichloroet...			0.682	0.661	0.624	0.543	0.579	0.618	9.30
19) T Isopropyl Alcohol			1.049	0.974	0.894	0.737	0.778	0.886	14.74
20) T Methylene Chlo...			0.678	0.650	0.589	0.477	0.484	0.575	16.11
21) T Allyl Chloride			1.212	1.123	1.113	0.944	1.004	1.079	9.82
22) T trans-1,2-Dich...			0.787	0.768	0.751	0.614	0.657	0.715	10.60
23) T Vinyl Acetate			0.747	0.813	1.062	0.813	0.838	0.855	14.14
24) T 1,1-Dichloroet...			1.483	1.447	1.407	1.182	1.256	1.355	9.58
25) T Ethyl Acetate			4.395	4.387	4.334	3.930	3.909	4.191	5.94
26) T Hexane			1.880	1.798	1.796	1.575	1.572	1.724	8.22
27) T Carbon Disulfide			1.742	1.682	1.729	1.513	1.590	1.651	5.91
28) T Methyl tert-Bu...			1.432	1.348	1.504	1.137	1.158	1.316	12.43
29) T Chloroform			2.559	2.541	2.571	2.188	2.203	2.412	8.23
30) T Cyclohexane			1.544	1.520	1.599	1.364	1.377	1.481	7.06
31) T cis-1,2-Dichlo...			1.823	1.793	1.721	1.538	1.550	1.685	7.96
32) T 1,1,1-Trichlor...	2.446	2.507	2.490	2.394	2.480	2.189	2.268	2.396	5.11

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.886	0.861	0.893	0.753	0.764	0.831	8.15
35) T Carbon Tetrach...	0.939	0.734	0.733	0.762	0.786	0.732	0.754	0.777	9.52
36) T Benzene			1.194	1.211	1.210	1.099	1.086	1.160	5.35
37) T 1,2-Dichloroet...			0.672	0.606	0.622	0.564	0.579	0.609	6.91
38) T Trichloroethene	0.413	0.496	0.499	0.472	0.470	0.425	0.430	0.458	7.65
39) T 1,2-Dichloropr...			0.437	0.422	0.427	0.387	0.390	0.413	5.47

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL010925AIR.M										
40)	T	1,4-Dioxane		0.231	0.212	0.214	0.189	0.192	0.208	8.33
41)	T	Tetrahydrofuran		0.531	0.502	0.506	0.454	0.448	0.488	7.33
42)	T	Bromodichlorom...		0.839	0.853	0.856	0.804	0.829	0.836	2.53
43)		Methyl Methacr...		0.511	0.483	0.478	0.451	0.452	0.475	5.22
44)	T	2,2,4-Trimethy...		2.057	2.049	2.044	1.829	1.820	1.960	6.32
45)	T	t-1,3-Dichloro...		0.494	0.491	0.492	0.479	0.475	0.486	1.78
46)	T	cis-1,3-Dichlo...		0.641	0.640	0.625	0.608	0.606	0.624	2.66
47)	T	1,1,2-Trichlor...		0.460	0.452	0.447	0.399	0.413	0.434	6.15
48)	T	Dibromochlorom...		0.637	0.634	0.696	0.656	0.669	0.658	3.85
49)	T	Bromoform		0.522	0.565	0.610	0.583	0.594	0.575	5.86
50)	T	4-Methyl-2-Pen...		1.246	1.237	1.228	1.108	1.113	1.186	5.89
51)	T	2-Hexanone		1.034	0.993	1.031	0.909	0.912	0.976	6.32
52)	T	Tetrachloroethene	0.547 0.499	0.445	0.430	0.428	0.381	0.382	0.444	13.64
53)	T	Toluene		1.443	1.434	1.422	1.297	1.303	1.380	5.30
54)	T	1,2-Dibromoethane	0.550	0.619	0.616	0.619	0.562	0.577	0.590	5.33
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.619	0.615	0.638	0.547	0.561	0.596	6.69
57)	T	Chlorobenzene		1.171	1.197	1.171	1.016	1.019	1.115	8.03
58)	T	Ethyl Benzene		2.107	2.147	2.215	1.907	1.904	2.056	6.94
59)	T	m/p-Xylene		1.679	1.715	1.735	1.486	1.509	1.625	7.27
60)	T	o-Xylene		1.713	1.709	1.728	1.474	1.480	1.621	8.10
61)	T	Styrene		0.846	0.815	0.858	0.769	0.759	0.809	5.46
62)		Isopropylbenzene		2.546	2.578	2.649	2.231	2.196	2.440	8.63
63)	T	1,1,2,2-Tetrac...	0.917 1.102	1.015	0.991	1.032	0.883	0.874	0.973	8.74
64)		n-propylbenzene		0.672	0.675	0.684	0.573	0.576	0.636	8.85
65)		tert-Butylbenzene		2.320	2.413	2.449	1.954	1.906	2.208	11.74
66)	T	Benzyl Chloride		0.245	0.232	0.253	0.215	0.199	0.229	9.56
67)		sec-Butylbenzene		3.272	3.300	3.369	2.680	2.593	3.043	12.29
68)	S	1-Bromo-4-Fluo...	0.806 0.797	0.806	0.803	0.809	0.801	0.791	0.802	0.78
69)		p-Isopropyltol...		2.708	2.843	2.861	2.321	2.250	2.597	11.21
70)		n-Butylbenzene		2.797	2.833	2.871	2.307	2.223	2.606	12.05
71)		2-Chlorotoluene		2.019	2.016	2.016	1.707	1.688	1.889	9.28
72)	T	4-Ethyltoluene		2.031	2.130	2.181	1.817	1.777	1.987	9.18
73)	T	1,3,5-Trimethy...		1.730	1.818	1.830	1.532	1.525	1.687	8.88
74)	T	1,2,4-Trimethy...		1.908	2.001	2.042	1.617	1.595	1.833	11.62
75)	T	1,3-Dichlorobe...		1.190	1.177	1.191	0.966	0.969	1.099	10.91
76)	T	1,4-Dichlorobe...		1.170	1.148	1.185	0.966	0.969	1.088	10.15
77)	T	1,2-Dichlorobe...		1.124	1.117	1.122	0.915	0.915	1.039	10.87
78)	T	Hexachloro-1,3...		0.999	1.015	1.009	0.714	0.725	0.893	17.71
79)	T	Naphthalene	2.105	2.131	2.188	2.263	1.580	1.579	1.974	15.75
80)	T	Naphthalene,2-...		1.184	1.261	1.336	0.763	0.780	1.065	25.66
81)	T	1,2,4-Trichlor...		1.006	1.081	1.081	0.764	0.768	0.940	17.19

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041859.D
 Acq On : 09 Jan 2025 11:19
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 11:50:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	150033	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.985	114	442867	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	410499	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.396 95 328846 9.353 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	226313	9.193	ppbv	99
3) Chlorodifluoromethane	1.483	51	247276	10.513	ppbv	98
4) Chloromethane	1.541	50	85664	8.462	ppbv	95
5) Vinyl Chloride	1.586	62	86352	8.457	ppbv	98
6) Bromomethane	1.677	94	39829	9.107	ppbv	96
7) Chloroethane	1.713	64	34351	8.740	ppbv	94
8) Dichlorotetrafluoroethane	1.560	85	195898	9.224	ppbv	93
9) Propene	1.489	41	112124	13.692	ppbv	98
10) Heptane	5.014	43	303272	14.992	ppbv	95
11) Trichlorofluoromethane	1.887	101	222752	8.899	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.153	101	181116	9.715	ppbv	90
13) Ethanol	1.729	45	5261m	5.647	ppbv	
14) Bromoethene	1.790	108	65566	10.743	ppbv	96
15) Acetone	1.845	43	183039	6.626	ppbv	94
16) 1,3-Butadiene	1.615	39	86059	7.945	ppbv	94
17) tert-Butyl alcohol	2.052	59	256303	10.708	ppbv	99
18) 1,1-Dichloroethene	2.046	96	81423	10.432	ppbv	89
19) Isopropyl Alcohol	1.897	45	110578	8.528	ppbv #	1
20) Methylene Chloride	2.072	84	71501	9.055	ppbv #	81
21) Allyl Chloride	2.107	41	141576	9.950	ppbv	90
22) trans-1,2-Dichloroethene	2.353	96	92062	10.553	ppbv	93
23) Vinyl Acetate	2.480	43	121914	13.762	ppbv #	92
24) 1,1-Dichloroethane	2.425	63	177291	9.286	ppbv	100
25) Ethyl Acetate	2.855	43	589565	12.728	ppbv	98
26) Hexane	2.845	57	236237	14.695	ppbv	88
27) Carbon Disulfide	2.162	76	226986	14.877	ppbv #	88
28) Methyl tert-Butyl Ether	2.457	73	170565	14.077	ppbv	98
29) Chloroform	2.868	83	328206	10.989	ppbv	97
30) Cyclohexane	3.884	84	204595	16.773	ppbv #	89
31) cis-1,2-Dichloroethene	2.739	61	230732	13.944	ppbv	92
32) 1,1,1-Trichloroethane	3.392	97	328356	12.132	ppbv	94
34) 2-Butanone	2.573	43	333402	9.557	ppbv	95
35) Carbon Tetrachloride	3.787	117	324320	9.690	ppbv	97
36) Benzene	3.680	78	486852	11.507	ppbv #	95
37) 1,2-Dichloroethane	3.240	62	249944	8.987	ppbv	97
38) Trichloroethene	4.577	130	188346	11.357	ppbv	95
39) 1,2-Dichloropropane	4.344	63	171561	10.483	ppbv #	84
40) 1,4-Dioxane	4.616	88	83645	13.190	ppbv #	66
41) Tetrahydrofuran	3.075	42	201204	12.236	ppbv	93
42) Bromodichloromethane	4.522	83	355888	10.910	ppbv	97
43) Methyl Methacrylate	4.914	69	199710	15.032	ppbv	87
44) 2,2,4-Trimethylpentane	4.674	57	809851	11.618	ppbv	93
45) t-1,3-Dichloropropene	6.454	75	212343	16.371	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041859.D
 Acq On : 09 Jan 2025 11:19
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 11:50:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.639	75	269395	15.788	ppbv	87
47) 1,1,2-Trichloroethane	6.619	97	176811	10.214	ppbv	97
48) Dibromochloromethane	7.419	129	290737	13.195	ppbv	99
49) Bromoform	9.506	173	257972	14.609	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	490478	12.169	ppbv	92
51) 2-Hexanone	7.467	43	402499	13.184	ppbv #	88
52) Tetrachloroethene	8.251	164	168568	13.435	ppbv	96
53) Toluene	6.969	91	574578	15.242	ppbv	99
54) 1,2-Dibromoethane	7.681	107	248821	11.739	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.946	131	224424	9.592	ppbv	99
57) Chlorobenzene	8.946	112	417085	9.725	ppbv	96
58) Ethyl Benzene	9.380	91	782806	13.992	ppbv	99
59) m/p-Xylene	9.558	91	1220366m	24.712	ppbv	
60) o-Xylene	9.985	91	605176	12.598	ppbv	99
61) Styrene	9.895	104	315614	16.935	ppbv	97
62) Isopropylbenzene	10.561	105	915687	12.133	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.985	83	362310	8.601	ppbv	100
64) n-propylbenzene	11.011	120	235202	12.147	ppbv	98
65) tert-Butylbenzene	11.552	119	801987	11.792	ppbv	96
66) Benzyl Chloride	11.636	91	88168	15.512	ppbv	95
67) sec-Butylbenzene	11.788	105	1100240	11.087	ppbv	98
69) p-Isopropyltoluene	11.947	119	952865	12.230	ppbv	97
70) n-Butylbenzene	12.300	91	946867	12.097	ppbv	98
71) 2-Chlorotoluene	10.921	91	700520	12.787	ppbv	100
72) 4-Ethyltoluene	11.144	105	745709	12.837	ppbv	99
73) 1,3,5-Trimethylbenzene	11.225	105	628921	12.361	ppbv	97
74) 1,2,4-Trimethylbenzene	11.558	105	663696	11.261	ppbv	95
75) 1,3-Dichlorobenzene	11.626	146	396672	10.056	ppbv	98
76) 1,4-Dichlorobenzene	11.691	146	396593	10.448	ppbv	97
77) 1,2-Dichlorobenzene	11.966	146	375622	9.138	ppbv	99
78) Hexachloro-1,3-Butadiene	13.902	225	293286	10.050	ppbv	100
79) Naphthalene	13.533	128	648444	14.936	ppbv	99
80) Naphthalene,2-methyl-	14.478	142	313133	19.488	ppbv	97
81) 1,2,4-Trichlorobenzene	13.458	180	313601	13.033	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

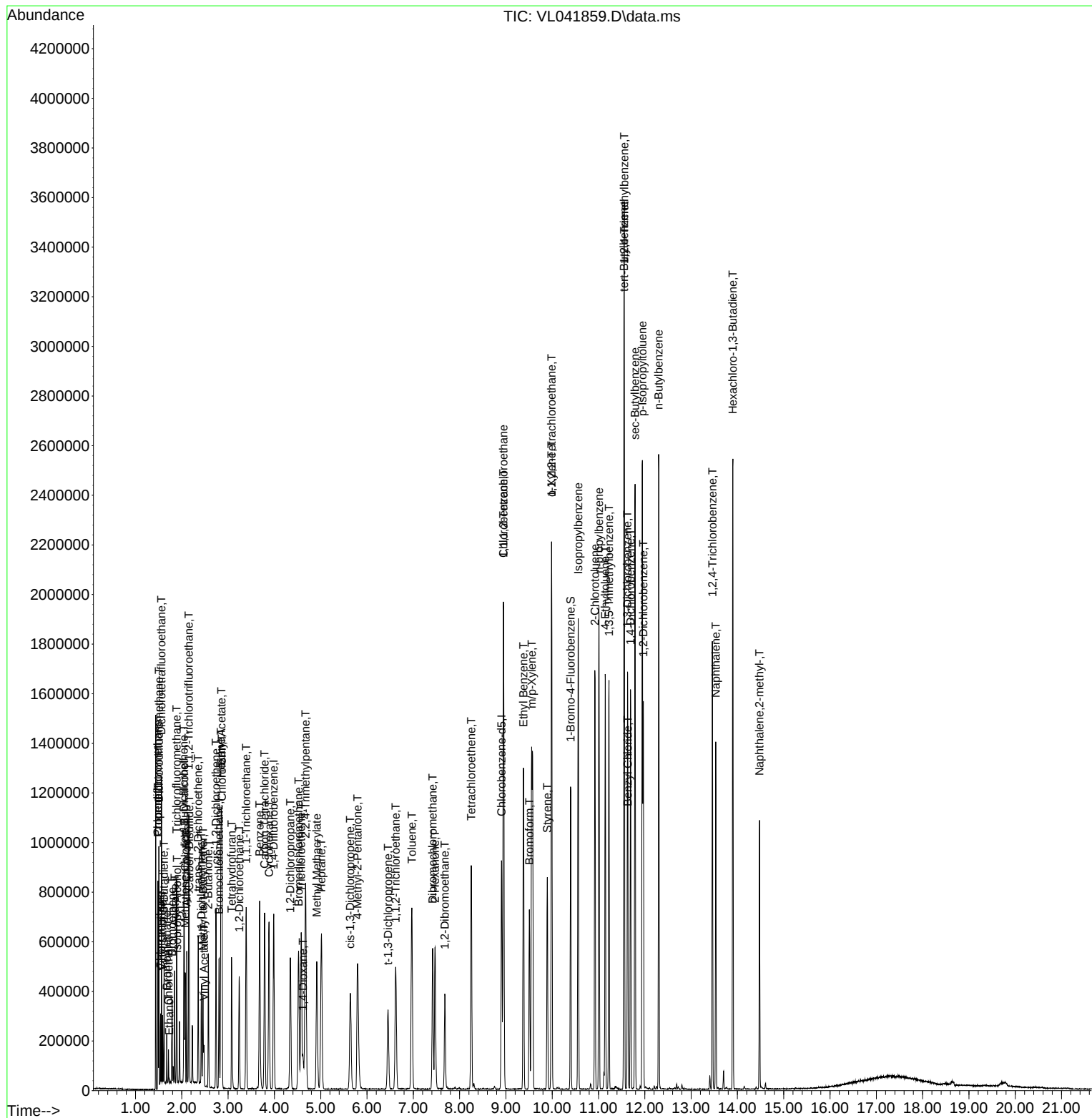
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041859.D
 Acq On : 09 Jan 2025 11:19
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 11:50:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
 QLast Update : Wed Jan 08 03:26:12 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041860.D
 Acq On : 09 Jan 2025 11:52
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 12:25:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	145561	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	440592	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	401428	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.396 95 324737 9.445 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	47849	2.003	ppbv	98
3) Chlorodifluoromethane	1.483	51	54584	2.392	ppbv	98
4) Chloromethane	1.541	50	19879	2.024	ppbv	92
5) Vinyl Chloride	1.589	62	18283	1.846	ppbv	96
6) Bromomethane	1.677	94	9801	2.310	ppbv	94
7) Chloroethane	1.712	64	7947	2.084	ppbv	98
8) Dichlorotetrafluoroethane	1.560	85	44848	2.176	ppbv	100
9) Propene	1.489	41	24915	3.136	ppbv	100
10) Heptane	5.011	43	66122	3.369	ppbv	93
11) Trichlorofluoromethane	1.887	101	52216	2.150	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.153	101	41991	2.322	ppbv	94
13) Ethanol	1.729	45	1802m	1.994	ppbv	
14) Bromoethene	1.790	108	15205	2.568	ppbv	97
15) Acetone	1.845	43	52918	1.975	ppbv	90
16) 1,3-Butadiene	1.615	39	20658	1.966	ppbv	88
17) tert-Butyl alcohol	2.052	59	58092	2.502	ppbv #	94
18) 1,1-Dichloroethene	2.046	96	18153	2.397	ppbv	84
19) Isopropyl Alcohol	1.897	45	26028	2.069	ppbv #	96
20) Methylene Chloride	2.072	84	17135	2.237	ppbv	83
21) Allyl Chloride	2.107	41	32414	2.348	ppbv	91
22) trans-1,2-Dichloroethene	2.353	96	21862	2.583	ppbv	94
23) Vinyl Acetate	2.476	43	30926	3.598	ppbv #	95
24) 1,1-Dichloroethane	2.424	63	40950	2.211	ppbv	99
25) Ethyl Acetate	2.855	43	126167	2.807	ppbv #	96
26) Hexane	2.842	57	52287	3.352	ppbv	87
27) Carbon Disulfide	2.162	76	50347	3.401	ppbv	95
28) Methyl tert-Butyl Ether	2.457	73	43777	3.724	ppbv	99
29) Chloroform	2.865	83	74846	2.583	ppbv	97
30) Cyclohexane	3.878	84	46542	3.933	ppbv #	85
31) cis-1,2-Dichloroethene	2.738	61	50096	3.120	ppbv	98
32) 1,1,1-Trichloroethane	3.389	97	72210	2.750	ppbv	93
34) 2-Butanone	2.573	43	78681	2.267	ppbv	98
35) Carbon Tetrachloride	3.790	117	69223	2.079	ppbv	90
36) Benzene	3.680	78	106654	2.534	ppbv	96
37) 1,2-Dichloroethane	3.240	62	54776	1.980	ppbv #	95
38) Trichloroethene	4.574	130	41427	2.511	ppbv	92
39) 1,2-Dichloropropane	4.347	63	37604m	2.310	ppbv	
40) 1,4-Dioxane	4.629	88	18864	2.990	ppbv #	50
41) Tetrahydrofuran	3.078	42	44570	2.724	ppbv	90
42) Bromodichloromethane	4.515	83	75424	2.324	ppbv	99
43) Methyl Methacrylate	4.920	69	42157m	3.190	ppbv	
44) 2,2,4-Trimethylpentane	4.674	57	180117	2.597	ppbv	92
45) t-1,3-Dichloropropene	6.454	75	43372	3.361	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041860.D
 Acq On : 09 Jan 2025 11:52
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 12:25:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	55051	3.243	ppbv	95
47) 1,1,2-Trichloroethane	6.622	97	39391m	2.287	ppbv	
48) Dibromochloromethane	7.419	129	61313	2.797	ppbv	100
49) Bromoform	9.506	173	53734	3.059	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	108191	2.698	ppbv	91
51) 2-Hexanone	7.470	43	90844	2.991	ppbv #	86
52) Tetrachloroethene	8.250	164	37701	3.020	ppbv	92
53) Toluene	6.969	91	125295	3.341	ppbv	98
54) 1,2-Dibromoethane	7.681	107	54562	2.587	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.946	131	51252	2.240	ppbv	98
57) Chlorobenzene	8.946	112	94006	2.242	ppbv	97
58) Ethyl Benzene	9.377	91	177814	3.250	ppbv	99
59) m/p-Xylene	9.571	91	278550m	5.768	ppbv	
60) o-Xylene	9.985	91	138722	2.953	ppbv	99
61) Styrene	9.891	104	68864	3.779	ppbv	97
62) Isopropylbenzene	10.558	105	212705	2.882	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.985	83	82870	2.012	ppbv	99
64) n-propylbenzene	11.008	120	54888	2.899	ppbv	100
65) tert-Butylbenzene	11.549	119	196649	2.957	ppbv	95
66) Benzyl Chloride	11.636	91	20300	3.652	ppbv	95
67) sec-Butylbenzene	11.785	105	270495	2.787	ppbv	100
69) p-Isopropyltoluene	11.943	119	229731	3.015	ppbv	97
70) n-Butylbenzene	12.299	91	230497	3.011	ppbv	98
71) 2-Chlorotoluene	10.921	91	161864	3.021	ppbv	99
72) 4-Ethyltoluene	11.144	105	175142	3.083	ppbv	98
73) 1,3,5-Trimethylbenzene	11.222	105	146927	2.953	ppbv	99
74) 1,2,4-Trimethylbenzene	11.555	105	163980	2.845	ppbv	98
75) 1,3-Dichlorobenzene	11.626	146	95654	2.480	ppbv	98
76) 1,4-Dichlorobenzene	11.691	146	95164	2.564	ppbv	97
77) 1,2-Dichlorobenzene	11.966	146	90047	2.240	ppbv	98
78) Hexachloro-1,3-Butadiene	13.898	225	81017	2.839	ppbv	98
79) Naphthalene	13.529	128	181703	4.280	ppbv	99
80) Naphthalene,2-methyl-	14.474	142	107237	6.825	ppbv	98
81) 1,2,4-Trichlorobenzene	13.458	180	86805	3.689	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041861.D
 Acq On : 09 Jan 2025 12:22
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 13:30:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	143443	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	434494	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	394905	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 317281 9.381 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	25040	1.064	ppbv	98
3) Chlorodifluoromethane	1.483	51	26900	1.196	ppbv	99
4) Chloromethane	1.541	50	9681	1.000	ppbv	90
5) Vinyl Chloride	1.586	62	9371	0.960	ppbv	97
6) Bromomethane	1.674	94	4513	1.079	ppbv	97
7) Chloroethane	1.712	64	4049	1.077	ppbv	97
8) Dichlorotetrafluoroethane	1.560	85	20696	1.019	ppbv	93
9) Propene	1.489	41	13149	1.680	ppbv	93
10) Heptane	5.011	43	33313	1.722	ppbv	99
11) Trichlorofluoromethane	1.887	101	24866	1.039	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.153	101	20153	1.131	ppbv	91
13) Ethanol	1.729	45	857m	0.962	ppbv	
14) Bromoethene	1.790	108	6917	1.185	ppbv #	85
15) Acetone	1.845	43	28258	1.070	ppbv #	86
16) 1,3-Butadiene	1.615	39	10650	1.028	ppbv	95
17) tert-Butyl alcohol	2.052	59	29021	1.268	ppbv #	92
18) 1,1-Dichloroethene	2.046	96	9481	1.270	ppbv	80
19) Isopropyl Alcohol	1.897	45	13968	1.127	ppbv #	97
20) Methylene Chloride	2.072	84	9326	1.235	ppbv	89
21) Allyl Chloride	2.107	41	16109	1.184	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	11020m	1.321	ppbv	
23) Vinyl Acetate	2.473	43	11666	1.377	ppbv #	95
24) 1,1-Dichloroethane	2.421	63	20750	1.137	ppbv #	94
25) Ethyl Acetate	2.855	43	62927	1.421	ppbv #	96
26) Hexane	2.842	57	25792	1.678	ppbv	89
27) Carbon Disulfide	2.162	76	24132	1.654	ppbv #	53
28) Methyl tert-Butyl Ether	2.457	73	19330	1.669	ppbv	99
29) Chloroform	2.865	83	36445	1.276	ppbv	100
30) Cyclohexane	3.881	84	21797	1.869	ppbv	92
31) cis-1,2-Dichloroethene	2.735	61	25721	1.626	ppbv	98
32) 1,1,1-Trichloroethane	3.389	97	34347	1.327	ppbv	95
34) 2-Butanone	2.573	43	37395	1.093	ppbv	96
35) Carbon Tetrachloride	3.784	117	33087	1.008	ppbv	94
36) Benzene	3.677	78	52621	1.268	ppbv #	91
37) 1,2-Dichloroethane	3.237	62	26348	0.966	ppbv #	93
38) Trichloroethene	4.577	130	20492	1.259	ppbv	97
39) 1,2-Dichloropropane	4.341	63	18342	1.142	ppbv #	78
40) 1,4-Dioxane	4.622	88	9193m	1.478	ppbv	
41) Tetrahydrofuran	3.082	42	21802	1.351	ppbv	89
42) Bromodichloromethane	4.515	83	37075	1.159	ppbv #	90
43) Methyl Methacrylate	4.913	69	20990	1.610	ppbv	93
44) 2,2,4-Trimethylpentane	4.671	57	89035	1.302	ppbv	92
45) t-1,3-Dichloropropene	6.448	75	21319m	1.675	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041861.D
 Acq On : 09 Jan 2025 12:22
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 13:30:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

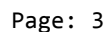
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	27792m	1.660	ppbv	
47) 1,1,2-Trichloroethane	6.619	97	19621	1.155	ppbv	97
48) Dibromochloromethane	7.412	129	27553m	1.275	ppbv	
49) Bromoform	9.503	173	24569	1.418	ppbv	99
50) 4-Methyl-2-Pentanone	5.800	43	53757m	1.359	ppbv	
51) 2-Hexanone	7.470	43	43139m	1.440	ppbv	
52) Tetrachloroethene	8.250	164	18665	1.516	ppbv	91
53) Toluene	6.962	91	62304	1.685	ppbv	99
54) 1,2-Dibromoethane	7.678	107	26769	1.287	ppbv	89
56) 1,1,1,2-Tetrachloroethane	8.946	131	24293	1.079	ppbv #	91
57) Chlorobenzene	8.946	112	47288	1.146	ppbv	92
58) Ethyl Benzene	9.377	91	84795	1.575	ppbv	99
59) m/p-Xylene	9.552	91	135481m	2.852	ppbv	
60) o-Xylene	9.982	91	67480	1.460	ppbv	100
61) Styrene	9.891	104	32180	1.795	ppbv	99
62) Isopropylbenzene	10.558	105	101824	1.402	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.985	83	39140	0.966	ppbv	96
64) n-propylbenzene	11.008	120	26642	1.430	ppbv	99
65) tert-Butylbenzene	11.549	119	95303	1.457	ppbv	95
66) Benzyl Chloride	11.633	91	9179	1.679	ppbv #	91
67) sec-Butylbenzene	11.785	105	130334	1.365	ppbv	98
69) p-Isopropyltoluene	11.943	119	112256	1.498	ppbv	98
70) n-Butylbenzene	12.299	91	111884	1.486	ppbv	99
71) 2-Chlorotoluene	10.917	91	79598	1.510	ppbv	99
72) 4-Ethyltoluene	11.141	105	84096	1.505	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	71812	1.467	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	79018	1.394	ppbv #	92
75) 1,3-Dichlorobenzene	11.623	146	46462	1.224	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	45316	1.241	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	44103	1.115	ppbv	98
78) Hexachloro-1,3-Butadiene	13.898	225	40100	1.428	ppbv	98
79) Naphthalene	13.529	128	86398	2.069	ppbv	99
80) Naphthalene,2-methyl-	14.474	142	49807	3.222	ppbv	96
81) 1,2,4-Trichlorobenzene	13.455	180	42679	1.844	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integrations

Quant Time: Jan 09 13:30:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041862.D
 Acq On : 09 Jan 2025 12:53
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 13:33:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	143127	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.985	114	429322	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	397287	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.396 95 320213 9.411 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	12809	0.545	ppbv	97
3) Chlorodifluoromethane	1.483	51	14172	0.632	ppbv	98
4) Chloromethane	1.541	50	4728	0.490	ppbv #	79
5) Vinyl Chloride	1.589	62	4803	0.493	ppbv	97
6) Bromomethane	1.674	94	2791	0.669	ppbv #	81
7) Chloroethane	1.716	64	2059	0.549	ppbv	94
8) Dichlorotetrafluoroethane	1.564	85	10699	0.528	ppbv	93
9) Propene	1.489	41	6731	0.862	ppbv	90
10) Heptane	5.011	43	17661m	0.915	ppbv	
11) Trichlorofluoromethane	1.887	101	13013	0.545	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.153	101	10592	0.596	ppbv	90
13) Ethanol	1.732	45	533m	0.600	ppbv	
14) Bromoethene	1.790	108	3822	0.656	ppbv #	90
15) Acetone	1.848	43	15259	0.579	ppbv #	83
16) 1,3-Butadiene	1.619	39	7024	0.680	ppbv	98
17) tert-Butyl alcohol	2.056	59	14992	0.657	ppbv #	93
18) 1,1-Dichloroethene	2.046	96	4883	0.656	ppbv #	88
19) Isopropyl Alcohol	1.900	45	7509	0.607	ppbv #	95
20) Methylene Chloride	2.075	84	4849	0.644	ppbv	96
21) Allyl Chloride	2.107	41	8675	0.639	ppbv #	91
22) trans-1,2-Dichloroethene	2.357	96	5632	0.677	ppbv	83
23) Vinyl Acetate	2.473	43	5348m	0.633	ppbv	
24) 1,1-Dichloroethane	2.421	63	10611	0.583	ppbv	98
25) Ethyl Acetate	2.855	43	31455	0.712	ppbv #	97
26) Hexane	2.845	57	13451	0.877	ppbv	86
27) Carbon Disulfide	2.162	76	12466	0.856	ppbv #	62
28) Methyl tert-Butyl Ether	2.460	73	10251	0.887	ppbv #	79
29) Chloroform	2.865	83	18316	0.643	ppbv	93
30) Cyclohexane	3.884	84	11047m	0.949	ppbv	
31) cis-1,2-Dichloroethene	2.735	61	13045	0.826	ppbv	90
32) 1,1,1-Trichloroethane	3.389	97	17819	0.690	ppbv	95
34) 2-Butanone	2.577	43	19019	0.562	ppbv	96
35) Carbon Tetrachloride	3.787	117	15737	0.485	ppbv	96
36) Benzene	3.680	78	25621	0.625	ppbv #	92
37) 1,2-Dichloroethane	3.237	62	14429	0.535	ppbv #	90
38) Trichloroethene	4.577	130	10721m	0.667	ppbv	
39) 1,2-Dichloropropane	4.350	63	9384m	0.591	ppbv	
40) 1,4-Dioxane	4.638	88	4958m	0.806	ppbv	
41) Tetrahydrofuran	3.085	42	11404	0.715	ppbv #	92
42) Bromodichloromethane	4.525	83	18000	0.569	ppbv #	97
43) Methyl Methacrylate	4.923	69	10965m	0.851	ppbv	
44) 2,2,4-Trimethylpentane	4.668	57	44153m	0.653	ppbv	
45) t-1,3-Dichloropropene	6.451	75	10609	0.844	ppbv #	88

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041862.D
 Acq On : 09 Jan 2025 12:53
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 13:33:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.642	75	13758	0.832	ppbv	89
47) 1,1,2-Trichloroethane	6.626	97	9885m	0.589	ppbv	
48) Dibromochloromethane	7.419	129	13671	0.640	ppbv	99
49) Bromoform	9.510	173	11202	0.654	ppbv	98
50) 4-Methyl-2-Pentanone	5.810	43	26751m	0.685	ppbv	
51) 2-Hexanone	7.480	43	22189	0.750	ppbv #	90
52) Tetrachloroethene	8.254	164	9543	0.785	ppbv #	88
53) Toluene	6.966	91	30969	0.847	ppbv	98
54) 1,2-Dibromoethane	7.684	107	13281	0.646	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.950	131	12299	0.543	ppbv	92
57) Chlorobenzene	8.946	112	23264	0.560	ppbv #	95
58) Ethyl Benzene	9.380	91	41863	0.773	ppbv	90
59) m/p-Xylene	9.555	91	66716m	1.396	ppbv	
60) o-Xylene	9.985	91	34021	0.732	ppbv	99
61) Styrene	9.891	104	16798	0.931	ppbv	99
62) Isopropylbenzene	10.558	105	50575	0.692	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.985	83	20172	0.495	ppbv	97
64) n-propylbenzene	11.008	120	13351	0.712	ppbv	96
65) tert-Butylbenzene	11.552	119	46079	0.700	ppbv	97
66) Benzyl Chloride	11.633	91	4858	0.883	ppbv	99
67) sec-Butylbenzene	11.788	105	65001	0.677	ppbv	96
69) p-Isopropyltoluene	11.944	119	53789	0.713	ppbv	99
70) n-Butylbenzene	12.300	91	55556	0.733	ppbv	99
71) 2-Chlorotoluene	10.921	91	40116	0.757	ppbv	99
72) 4-Ethyltoluene	11.144	105	40352	0.718	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	34365	0.698	ppbv	92
74) 1,2,4-Trimethylbenzene	11.555	105	37910	0.665	ppbv #	82
75) 1,3-Dichlorobenzene	11.626	146	23642	0.619	ppbv	95
76) 1,4-Dichlorobenzene	11.691	146	23242	0.633	ppbv	98
77) 1,2-Dichlorobenzene	11.966	146	22337	0.561	ppbv	99
78) Hexachloro-1,3-Butadiene	13.902	225	19853	0.703	ppbv	97
79) Naphthalene	13.533	128	42331	1.007	ppbv #	95
80) Naphthalene,2-methyl-	14.478	142	23524	1.513	ppbv	96
81) 1,2,4-Trichlorobenzene	13.458	180	19980	0.858	ppbv	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041863.D
 Acq On : 09 Jan 2025 13:24
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:20:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jan 09 13:37:17 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.806	49	140029	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.984	114	422202	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.907	117	386905	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.399	95	308324	9.304	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.000%
Target Compounds						
5) Vinyl Chloride	1.589	62	1043	0.109	ppbv	97
32) 1,1,1-Trichloroethane	3.395	97	3510m	0.139	ppbv	
35) Carbon Tetrachloride	3.793	117	3101m	0.097	ppbv	
38) Trichloroethene	4.580	130	2096m	0.133	ppbv	
52) Tetrachloroethene	8.247	164	2108m	0.176	ppbv	
54) 1,2-Dibromoethane	7.684	107	2320m	0.115	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.992	83	4264	0.107	ppbv	96
79) Naphthalene	13.532	128	8145	0.199	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

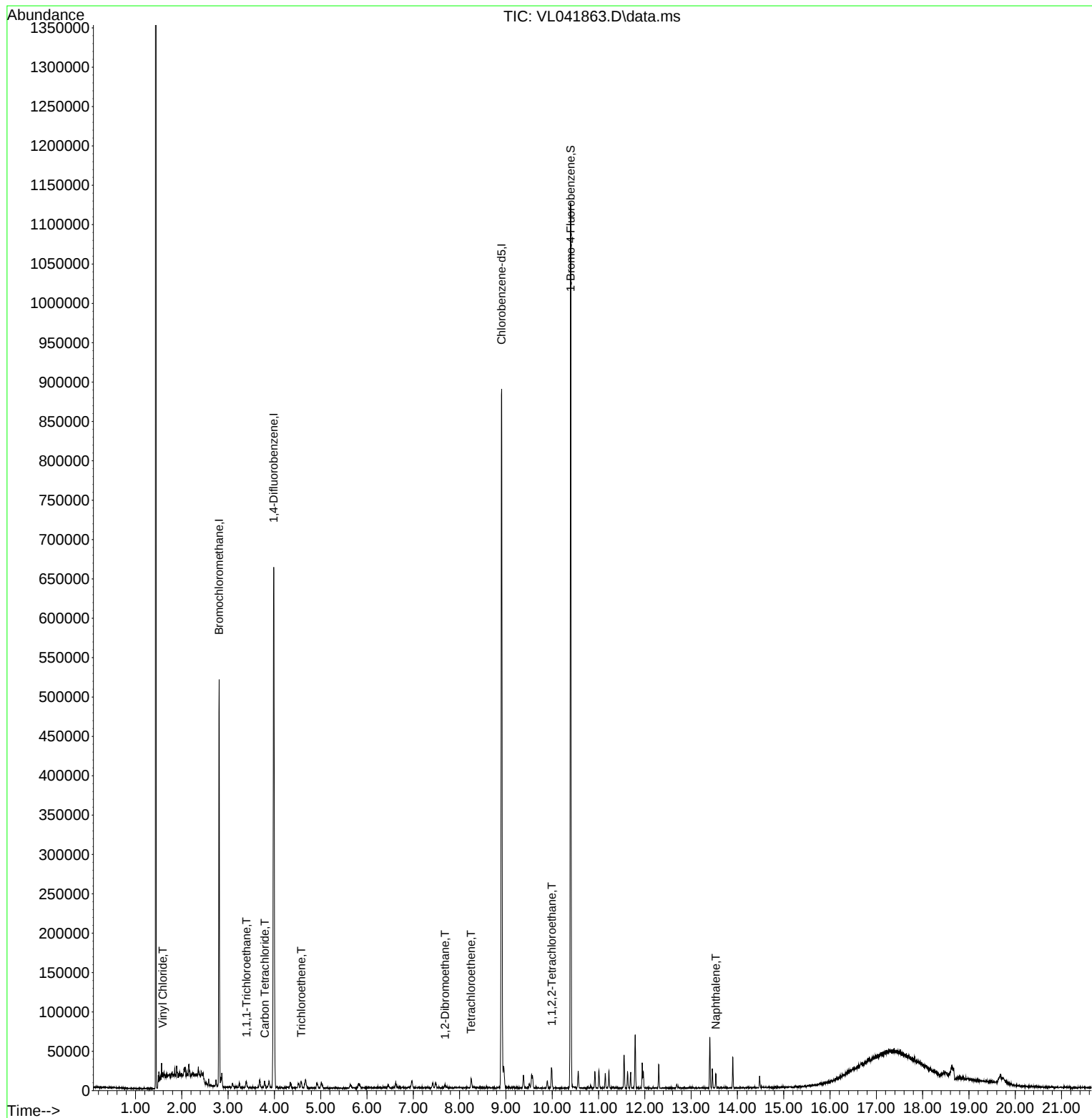
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041863.D
Acq On : 09 Jan 2025 13:24
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:20:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jan 09 13:37:17 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041864.D
 Acq On : 09 Jan 2025 13:54
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:27:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jan 09 13:37:17 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	140652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.982	114	417764	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	382336	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	308087	9.408	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.590	62	375	0.039	ppbv #	86
32) 1,1,1-Trichloroethane	3.389	97	1032m	0.041	ppbv	
35) Carbon Tetrachloride	3.791	117	1177m	0.037	ppbv	
38) Trichloroethene	4.580	130	518m	0.033	ppbv	
52) Tetrachloroethene	8.251	164	686	0.058	ppbv #	49
63) 1,1,2,2-Tetrachloroethane	9.979	83	1052	0.027	ppbv #	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

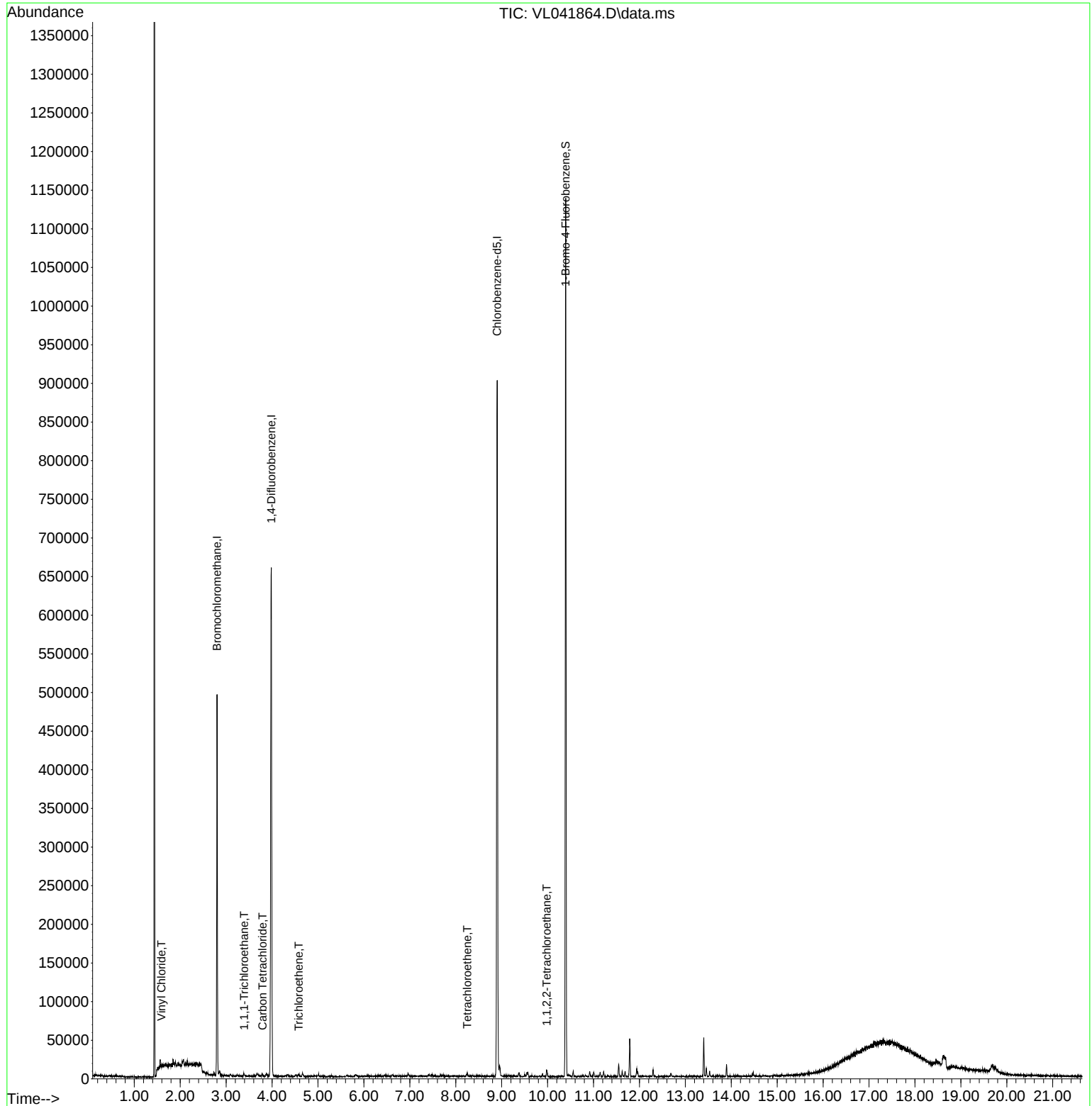
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041864.D
Acq On : 09 Jan 2025 13:54
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:27:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jan 09 13:37:17 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041865.D
 Acq On : 09 Jan 2025 14:27
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:50:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Jan 09 13:37:17 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	137279	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	407583	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	378604	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 299372 9.232 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	313199	13.904	ppbv	97
3) Chlorodifluoromethane	1.483	51	337217	15.668	ppbv	100
4) Chloromethane	1.538	50	123832	13.369	ppbv	97
5) Vinyl Chloride	1.586	62	121286	12.983	ppbv	100
6) Bromomethane	1.674	94	60238	15.053	ppbv	100
7) Chloroethane	1.713	64	50126	13.938	ppbv	99
8) Dichlorotetrafluoroethane	1.560	85	278524	14.332	ppbv	94
9) Propene	1.489	41	153753	20.521	ppbv	97
10) Heptane	5.007	43	414222	22.380	ppbv	95
11) Trichlorofluoromethane	1.887	101	330865	14.446	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.149	101	265740	15.579	ppbv	93
13) Ethanol	1.729	45	7417m	8.701	ppbv	
14) Bromoethene	1.790	108	96283	17.241	ppbv #	97
15) Acetone	1.842	43	266190	10.532	ppbv	95
16) 1,3-Butadiene	1.615	39	126652	12.779	ppbv	92
17) tert-Butyl alcohol	2.049	59	359488	16.415	ppbv	99
18) 1,1-Dichloroethene	2.043	96	119220	16.693	ppbv	89
19) Isopropyl Alcohol	1.894	45	160227	13.505	ppbv #	1
20) Methylene Chloride	2.072	84	99639	13.790	ppbv	86
21) Allyl Chloride	2.107	41	206645	15.872	ppbv	90
22) trans-1,2-Dichloroethene	2.353	96	135232	16.942	ppbv	91
23) Vinyl Acetate	2.476	43	172469	21.278	ppbv #	93
24) 1,1-Dichloroethane	2.421	63	258532	14.799	ppbv	98
25) Ethyl Acetate	2.852	43	804978	18.993	ppbv	98
26) Hexane	2.842	57	323683	22.004	ppbv	88
27) Carbon Disulfide	2.162	76	327476	23.457	ppbv #	91
28) Methyl tert-Butyl Ether	2.454	73	238377	21.502	ppbv	98
29) Chloroform	2.865	83	453699	16.603	ppbv	97
30) Cyclohexane	3.878	84	283640	25.414	ppbv	89
31) cis-1,2-Dichloroethene	2.735	61	319115	21.076	ppbv	95
32) 1,1,1-Trichloroethane	3.389	97	467121	18.862	ppbv	94
34) 2-Butanone	2.570	43	467080	14.548	ppbv	96
35) Carbon Tetrachloride	3.784	117	460791	14.959	ppbv	93
36) Benzene	3.677	78	663984	17.053	ppbv	95
37) 1,2-Dichloroethane	3.237	62	353759	13.820	ppbv #	96
38) Trichloroethene	4.577	130	262977	17.230	ppbv	97
39) 1,2-Dichloropropane	4.341	63	238460	15.832	ppbv #	84
40) 1,4-Dioxane	4.609	88	117449	20.124	ppbv #	84
41) Tetrahydrofuran	3.072	42	273858	18.096	ppbv	92
42) Bromodichloromethane	4.515	83	507098	16.892	ppbv	100
43) Methyl Methacrylate	4.910	69	276446	22.609	ppbv	89
44) 2,2,4-Trimethylpentane	4.668	57	1112501	17.341	ppbv	93
45) t-1,3-Dichloropropene	6.448	75	290137	24.306	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041865.D
 Acq On : 09 Jan 2025 14:27
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:50:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Jan 09 13:37:17 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	370479	23.592	ppbv #	85
47) 1,1,2-Trichloroethane	6.616	97	252224	15.833	ppbv	96
48) Dibromochloromethane	7.412	129	408959	20.167	ppbv	99
49) Bromoform	9.503	173	362905	22.331	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	680330	18.341	ppbv	92
51) 2-Hexanone	7.461	43	557793	19.852	ppbv #	87
52) Tetrachloroethene	8.247	164	233663	20.236	ppbv	97
53) Toluene	6.966	91	796461	22.957	ppbv	99
54) 1,2-Dibromoethane	7.678	107	353045	18.098	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.946	131	318489	14.760	ppbv	99
57) Chlorobenzene	8.943	112	578775	14.632	ppbv	100
58) Ethyl Benzene	9.377	91	1081235	20.954	ppbv	100
59) m/p-Xylene	9.574	91	1713669m	37.624	ppbv	
60) o-Xylene	9.985	91	840494	18.971	ppbv	99
61) Styrene	9.892	104	431280	25.091	ppbv	98
62) Isopropylbenzene	10.558	105	1247161	17.917	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	496124	12.770	ppbv	100
64) n-propylbenzene	11.008	120	326937	18.307	ppbv	90
65) tert-Butylbenzene	11.549	119	1082296	17.255	ppbv	97
66) Benzyl Chloride	11.633	91	113138	21.582	ppbv	96
67) sec-Butylbenzene	11.785	105	1472665	16.090	ppbv	97
69) p-Isopropyltoluene	11.944	119	1277666	17.781	ppbv	98
70) n-Butylbenzene	12.300	91	1262477	17.488	ppbv	95
71) 2-Chlorotoluene	10.921	91	958596	18.973	ppbv	100
72) 4-Ethyltoluene	11.144	105	1009262	18.837	ppbv	98
73) 1,3,5-Trimethylbenzene	11.222	105	866209	18.459	ppbv	96
74) 1,2,4-Trimethylbenzene	11.555	105	905561	16.660	ppbv	92
75) 1,3-Dichlorobenzene	11.626	146	550141	15.122	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	550306	15.719	ppbv	98
77) 1,2-Dichlorobenzene	11.966	146	519421	13.701	ppbv	99
78) Hexachloro-1,3-Butadiene	13.898	225	411642	15.294	ppbv	99
79) Naphthalene	13.529	128	896443	22.388	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	442992	29.892	ppbv	98
81) 1,2,4-Trichlorobenzene	13.458	180	436412	19.665	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041866.D
 Acq On : 09 Jan 2025 15:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010925

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 15:38:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Jan 09 15:10:07 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	133443	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	399044	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	363459	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 291470 10.001 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	213962	9.767	ppbv	99
3) Chlorodifluoromethane	1.479	51	225635	9.377	ppbv	100
4) Chloromethane	1.538	50	80251	9.424	ppbv	97
5) Vinyl Chloride	1.586	62	79865	8.819	ppbv	99
6) Bromomethane	1.674	94	37306	8.740	ppbv	98
7) Chloroethane	1.709	64	31703	9.031	ppbv	100
8) Dichlorotetrafluoroethane	1.560	85	181663	9.538	ppbv	94
9) Propene	1.489	41	99446	8.857	ppbv	99
10) Heptane	5.004	43	273051	9.222	ppbv	95
11) Trichlorofluoromethane	1.884	101	215460	9.569	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.149	101	171593	9.420	ppbv	92
13) Ethanol	1.729	45	5044m	7.073	ppbv	
14) Bromoethene	1.787	108	61700	9.463	ppbv	97
15) Acetone	1.842	43	172416	7.661	ppbv	94
16) 1,3-Butadiene	1.615	39	83662	8.654	ppbv	93
17) tert-Butyl alcohol	2.049	59	246893	9.669	ppbv	100
18) 1,1-Dichloroethene	2.043	96	79001	9.584	ppbv	81
19) Isopropyl Alcohol	1.894	45	103696	8.766	ppbv #	1
20) Methylene Chloride	2.069	84	65389	8.517	ppbv	91
21) Allyl Chloride	2.104	41	131366	9.122	ppbv	93
22) trans-1,2-Dichloroethene	2.350	96	87967	9.216	ppbv	92
23) Vinyl Acetate	2.473	43	107320	9.411	ppbv #	93
24) 1,1-Dichloroethane	2.418	63	167453	9.264	ppbv	99
25) Ethyl Acetate	2.849	43	537722	9.615	ppbv	99
26) Hexane	2.839	57	213717	9.290	ppbv	89
27) Carbon Disulfide	2.159	76	211082	9.579	ppbv #	88
28) Methyl tert-Butyl Ether	2.454	73	150727	8.585	ppbv	99
29) Chloroform	2.861	83	302132	9.385	ppbv	98
30) Cyclohexane	3.878	84	187848	9.508	ppbv #	88
31) cis-1,2-Dichloroethene	2.732	61	215939	9.604	ppbv	97
32) 1,1,1-Trichloroethane	3.383	97	308704	9.654	ppbv	95
34) 2-Butanone	2.567	43	305484	9.209	ppbv	97
35) Carbon Tetrachloride	3.781	117	302110	9.742	ppbv	97
36) Benzene	3.674	78	448544	9.689	ppbv	96
37) 1,2-Dichloroethane	3.234	62	233663	9.621	ppbv #	96
38) Trichloroethene	4.570	130	171695	9.393	ppbv	96
39) 1,2-Dichloropropane	4.334	63	157431	9.560	ppbv #	85
40) 1,4-Dioxane	4.606	88	74011	8.937	ppbv #	76
41) Tetrahydrofuran	3.069	42	181706	9.327	ppbv	92
42) Bromodichloromethane	4.512	83	329142	9.864	ppbv	97
43) Methyl Methacrylate	4.907	69	179603	9.474	ppbv	87
44) 2,2,4-Trimethylpentane	4.668	57	741253	9.479	ppbv	93
45) t-1,3-Dichloropropene	6.444	75	182207	9.391	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041866.D
 Acq On : 09 Jan 2025 15:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010925

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 15:38:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Jan 09 15:10:07 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	236106	9.483	ppbv	87
47) 1,1,2-Trichloroethane	6.610	97	165331	9.543	ppbv	95
48) Dibromochloromethane	7.409	129	266338	10.137	ppbv	99
49) Bromoform	9.500	173	230376	10.047	ppbv	99
50) 4-Methyl-2-Pentanone	5.784	43	447733	9.458	ppbv	92
51) 2-Hexanone	7.458	43	363718	9.341	ppbv #	89
52) Tetrachloroethene	8.244	164	151399	8.536	ppbv	96
53) Toluene	6.959	91	517284	9.395	ppbv	100
54) 1,2-Dibromoethane	7.674	107	226153	9.598	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.943	131	209474	9.669	ppbv	100
57) Chlorobenzene	8.940	112	383752	9.470	ppbv	97
58) Ethyl Benzene	9.374	91	717041	9.595	ppbv	99
59) m/p-Xylene	9.548	91	1117121m	18.915	ppbv	
60) o-Xylene	9.982	91	555689	9.433	ppbv	99
61) Styrene	9.888	104	276061	9.385	ppbv	98
62) Isopropylbenzene	10.555	105	835024	9.415	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	327345	9.252	ppbv	100
64) n-propylbenzene	11.002	120	211515	9.153	ppbv	98
65) tert-Butylbenzene	11.545	119	747696	9.315	ppbv	96
66) Benzyl Chloride	11.630	91	68070	8.187	ppbv	95
67) sec-Butylbenzene	11.782	105	1020583	9.228	ppbv	99
69) p-Isopropyltoluene	11.940	119	862841	9.143	ppbv	98
70) n-Butylbenzene	12.296	91	843727	8.907	ppbv	98
71) 2-Chlorotoluene	10.917	91	625951	9.116	ppbv	100
72) 4-Ethyltoluene	11.141	105	668428	9.254	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	572229	9.332	ppbv	99
74) 1,2,4-Trimethylbenzene	11.552	105	607041	9.114	ppbv	91
75) 1,3-Dichlorobenzene	11.623	146	348741	8.734	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	351167	8.884	ppbv	98
77) 1,2-Dichlorobenzene	11.963	146	336372	8.912	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	247845	7.639	ppbv	99
79) Naphthalene	13.526	128	544143	7.583	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	232206	6.000	ppbv	97
81) 1,2,4-Trichlorobenzene	13.455	180	269501	7.888	ppbv	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041866.D
 Acq On : 09 Jan 2025 15:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL010925

Quant Time: Jan 09 15:38:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jan 09 15:10:07 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	89	0.00
2 T	Dichlorodifluoromethane	1.642	1.603	2.4	95	0.00
3	Chlorodifluoromethane	1.803	1.691	6.2	91	0.00
4	Chloromethane	0.638	0.601	5.8	94	0.00
5 T	Vinyl Chloride	0.679	0.598	11.9	92	0.00
6 T	Bromomethane	0.320	0.280	12.5	94	0.00
7	Chloroethane	0.263	0.238	9.5	92	0.00
8 T	Dichlorotetrafluoroethane	1.427	1.361	4.6	93	0.00
9 T	Propene	0.841	0.745	11.4	89	0.00
10 T	Heptane	2.219	2.046	7.8	90	0.00
11 T	Trichlorofluoromethane	1.687	1.615	4.3	97	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.365	1.286	5.8	95	0.00
13	Ethanol	0.053	0.038#	28.3	96	0.00
14 T	Bromoethene	0.489	0.462	5.5	94	0.00
15 T	Acetone	1.687	1.292	23.4	94	0.00
16 T	1,3-Butadiene	0.724	0.627	13.4	97	0.00
17	tert-Butyl alcohol	1.914	1.850	3.3	96	0.00
18 T	1,1-Dichloroethene	0.618	0.592	4.2	97	0.00
19 T	Isopropyl Alcohol	0.886	0.777	12.3	94	0.00
20 T	Methylene Chloride	0.575	0.490	14.8	91	0.00
21 T	Allyl Chloride	1.079	0.984	8.8	93	0.00
22 T	trans-1,2-Dichloroethene	0.715	0.659	7.8	96	0.00
23 T	Vinyl Acetate	0.855	0.804	6.0	88	0.00
24 T	1,1-Dichloroethane	1.355	1.255	7.4	94	0.00
25 T	Ethyl Acetate	4.191	4.030	3.8	91	0.00
26 T	Hexane	1.724	1.602	7.1	90	0.00
27 T	Carbon Disulfide	1.651	1.582	4.2	93	0.00
28 T	Methyl tert-Butyl Ether	1.316	1.130	14.1	88	0.00
29 T	Chloroform	2.412	2.264	6.1	92	0.00
30 T	Cyclohexane	1.481	1.408	4.9	92	0.00
31 T	cis-1,2-Dichloroethene	1.685	1.618	4.0	94	0.00
32 T	1,1,1-Trichloroethane	2.396	2.313	3.5	94	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
34 T	2-Butanone	0.831	0.766	7.8	92	0.00
35 T	Carbon Tetrachloride	0.777	0.757	2.6	93	0.00
36 T	Benzene	1.160	1.124	3.1	92	0.00
37 T	1,2-Dichloroethane	0.609	0.586	3.8	93	0.00
38 T	Trichloroethene	0.458	0.430	6.1	91	0.00
39 T	1,2-Dichloropropane	0.413	0.395	4.4	92	0.00
40 T	1,4-Dioxane	0.208	0.185	11.1	88	0.00
41 T	Tetrahydrofuran	0.488	0.455	6.8	90	0.00
42 T	Bromodichloromethane	0.836	0.825	1.3	92	0.00
43	Methyl Methacrylate	0.475	0.450	5.3	90	0.00
44 T	2,2,4-Trimethylpentane	1.960	1.858	5.2	92	0.00
45 T	t-1,3-Dichloropropene	0.486	0.457	6.0	86	0.00
46 T	cis-1,3-Dichloropropene	0.624	0.592	5.1	88	0.00
47 T	1,1,2-Trichloroethane	0.434	0.414	4.6	94	0.00
48 T	Dibromochloromethane	0.658	0.667	-1.4	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041866.D
 Acq On : 09 Jan 2025 15:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010925

Quant Time: Jan 09 15:38:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jan 09 15:10:07 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.575	0.577	-0.3	89	0.00
50 T	4-Methyl-2-Pentanone	1.186	1.122	5.4	91	-0.01
51 T	2-Hexanone	0.976	0.911	6.7	90	0.00
52 T	Tetrachloroethene	0.444	0.379	14.6	90	0.00
53 T	Toluene	1.380	1.296	6.1	90	0.00
54 T	1,2-Dibromoethane	0.590	0.567	3.9	91	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
56	1,1,1,2-Tetrachloroethane	0.596	0.576	3.4	93	0.00
57 T	Chlorobenzene	1.115	1.056	5.3	92	0.00
58 T	Ethyl Benzene	2.056	1.973	4.0	92	0.00
59 T	m/p-Xylene	1.625	1.537	5.4	92	0.00
60 T	o-Xylene	1.621	1.529	5.7	92	0.00
61 T	Styrene	0.809	0.760	6.1	87	0.00
62	Isopropylbenzene	2.440	2.297	5.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	0.973	0.901	7.4	90	0.00
64	n-propylbenzene	0.636	0.582	8.5	90	0.00
65	tert-Butylbenzene	2.208	2.057	6.8	93	0.00
66 T	Benzyl Chloride	0.229	0.187	18.3	77	0.00
67	sec-Butylbenzene	3.043	2.808	7.7	93	0.00
68 S	1-Bromo-4-Fluorobenzene	0.802	0.802	0.0	89	0.00
69	p-Isopropyltoluene	2.597	2.374	8.6	91	0.00
70	n-Butylbenzene	2.606	2.321	10.9	89	0.00
71	2-Chlorotoluene	1.889	1.722	8.8	89	0.00
72 T	4-Ethyltoluene	1.987	1.839	7.4	90	0.00
73 T	1,3,5-Trimethylbenzene	1.687	1.574	6.7	91	0.00
74 T	1,2,4-Trimethylbenzene	1.833	1.670	8.9	91	0.00
75 T	1,3-Dichlorobenzene	1.099	0.960	12.6	88	0.00
76 T	1,4-Dichlorobenzene	1.088	0.966	11.2	89	0.00
77 T	1,2-Dichlorobenzene	1.039	0.925	11.0	90	0.00
78 T	Hexachloro-1,3-Butadiene	0.893	0.682	23.6	85	0.00
79 T	Naphthalene	1.974	1.497	24.2	84	0.00
80 T	Naphthalene,2-methyl-	1.065	0.639	40.0#	74	0.00
81 T	1,2,4-Trichlorobenzene	0.940	0.741	21.2	86	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041869.D
 Acq On : 09 Jan 2025 17:01
 Operator : SY/MD
 Sample : VL0109ABL03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0109ABL03

Quant Time: Jan 10 01:41:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jan 10 00:31:30 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	128032	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	380928	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	344690	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	280854	10.162	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%

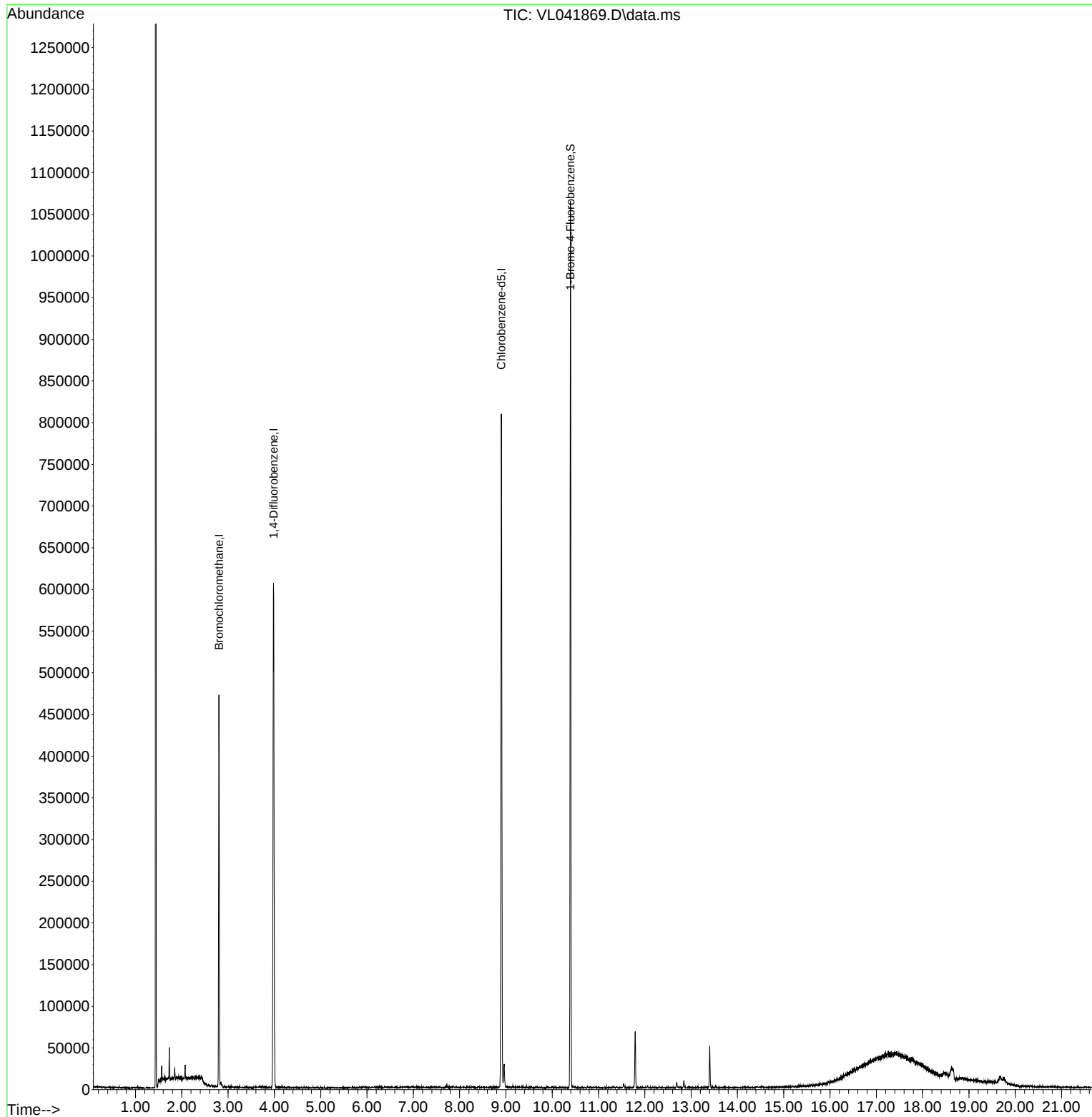
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041869.D
Acq On : 09 Jan 2025 17:01
Operator : SY/MD
Sample : VL0109ABL03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0109ABL03

Quant Time: Jan 10 01:41:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Jan 10 00:31:30 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041870.D
 Acq On : 09 Jan 2025 17:32
 Operator : SY/MD
 Sample : VL0109ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0109ABS01

Quant Time: Jan 10 01:42:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Jan 10 00:31:30 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	122543	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	372014	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	340087	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 274569 10.069 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	214765	10.675	ppbv	99
3) Chlorodifluoromethane	1.483	51	219609	9.938	ppbv	98
4) Chloromethane	1.538	50	79635	10.183	ppbv	99
5) Vinyl Chloride	1.586	62	78642	9.456	ppbv	99
6) Bromomethane	1.674	94	37722	9.624	ppbv	98
7) Chloroethane	1.713	64	32686	10.139	ppbv	100
8) Dichlorotetrafluoroethane	1.560	85	180586	10.325	ppbv	98
9) Propene	1.489	41	97956	9.500	ppbv	100
10) Heptane	5.007	43	265739	9.773	ppbv	99
11) Trichlorofluoromethane	1.887	101	218631	10.573	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.149	101	176361	10.543	ppbv	96
13) Ethanol	1.729	45	6453	9.854	ppbv	95
14) Bromoethene	1.790	108	62928	10.509	ppbv	98
15) Acetone	1.842	43	174247	8.431	ppbv	97
16) 1,3-Butadiene	1.615	39	81413	9.171	ppbv	95
17) tert-Butyl alcohol	2.049	59	244537	10.428	ppbv	98
18) 1,1-Dichloroethene	2.043	96	78665	10.392	ppbv	99
19) Isopropyl Alcohol	1.894	45	102969	9.479	ppbv	99
20) Methylene Chloride	2.072	84	66435	9.423	ppbv	95
21) Allyl Chloride	2.107	41	132275	10.002	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	87608	9.995	ppbv	98
23) Vinyl Acetate	2.476	43	97489	9.309	ppbv #	98
24) 1,1-Dichloroethane	2.421	63	172510	10.392	ppbv #	98
25) Ethyl Acetate	2.852	43	523764	10.198	ppbv	99
26) Hexane	2.842	57	210453	9.961	ppbv	99
27) Carbon Disulfide	2.162	76	208581	10.307	ppbv	99
28) Methyl tert-Butyl Ether	2.454	73	131707	8.169	ppbv	98
29) Chloroform	2.865	83	302447	10.231	ppbv	96
30) Cyclohexane	3.878	84	180360	9.941	ppbv	98
31) cis-1,2-Dichloroethene	2.735	61	208408	10.094	ppbv	97
32) 1,1,1-Trichloroethane	3.386	97	305295	10.396	ppbv	99
34) 2-Butanone	2.570	43	301434	9.747	ppbv	99
35) Carbon Tetrachloride	3.784	117	300238	10.385	ppbv	98
36) Benzene	3.677	78	433563	10.046	ppbv	98
37) 1,2-Dichloroethane	3.237	62	233267	10.302	ppbv	100
38) Trichloroethene	4.574	130	174343m	10.231	ppbv	
39) 1,2-Dichloropropane	4.337	63	152646	9.943	ppbv	97
40) 1,4-Dioxane	4.613	88	69319	8.979	ppbv #	87
41) Tetrahydrofuran	3.072	42	169639	9.340	ppbv	96
42) Bromodichloromethane	4.515	83	324422	10.429	ppbv	99
43) Methyl Methacrylate	4.907	69	175507	9.930	ppbv	99
44) 2,2,4-Trimethylpentane	4.668	57	725640	9.954	ppbv	99
45) t-1,3-Dichloropropene	6.444	75	175855	9.722	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041870.D
 Acq On : 09 Jan 2025 17:32
 Operator : SY/MD
 Sample : VL0109ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0109ABS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 01:42:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Jan 10 00:31:30 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	224860	9.688	ppbv	99
47) 1,1,2-Trichloroethane	6.616	97	161735	10.013	ppbv	98
48) Dibromochloromethane	7.412	129	261021	10.656	ppbv	98
49) Bromoform	9.503	173	224507	10.502	ppbv	100
50) 4-Methyl-2-Pentanone	5.784	43	429608	9.735	ppbv	100
51) 2-Hexanone	7.464	43	348688	9.606	ppbv	100
52) Tetrachloroethene	8.247	164	147986	8.949	ppbv	97
53) Toluene	6.962	91	508818	9.913	ppbv	100
54) 1,2-Dibromoethane	7.678	107	222055	10.109	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.946	131	204382	10.083	ppbv	99
57) Chlorobenzene	8.943	112	374449	9.875	ppbv	98
58) Ethyl Benzene	9.374	91	697634	9.977	ppbv	98
59) m/p-Xylene	9.571	91	1094652m	19.809	ppbv	
60) o-Xylene	9.982	91	542913	9.850	ppbv	100
61) Styrene	9.888	104	270452	9.826	ppbv	99
62) Isopropylbenzene	10.558	105	823744	9.926	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	320068	9.668	ppbv	99
64) n-propylbenzene	11.005	120	210154	9.719	ppbv	97
65) tert-Butylbenzene	11.549	119	733119	9.761	ppbv	99
66) Benzyl Chloride	11.633	91	59367	7.631	ppbv	99
67) sec-Butylbenzene	11.785	105	997840	9.642	ppbv	99
69) p-Isopropyltoluene	11.944	119	845742	9.577	ppbv	99
70) n-Butylbenzene	12.296	91	833307	9.402	ppbv	99
71) 2-Chlorotoluene	10.918	91	615640	9.582	ppbv	99
72) 4-Ethyltoluene	11.141	105	656224	9.710	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	562687	9.807	ppbv	99
74) 1,2,4-Trimethylbenzene	11.552	105	586850	9.416	ppbv #	84
75) 1,3-Dichlorobenzene	11.623	146	344200	9.212	ppbv	100
76) 1,4-Dichlorobenzene	11.688	146	343950	9.299	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	328031	9.288	ppbv	99
78) Hexachloro-1,3-Butadiene	13.898	225	243823	8.032	ppbv	99
79) Naphthalene	13.529	128	523668	7.800	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	200530	5.538	ppbv	99
81) 1,2,4-Trichlorobenzene	13.458	180	254295	7.954	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041876.D
 Acq On : 09 Jan 2025 20:46
 Operator : SY/MD
 Sample : QC010725 CAN 10601
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC010725 CAN 10601

Quant Time: Jan 10 01:48:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jan 10 00:31:30 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	114286	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	340666	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	300213	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	248334	10.316	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041876.D
Acq On : 09 Jan 2025 20:46
Operator : SY/MD
Sample : QC010725 CAN 10601
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC010725 CAN 10601

Quant Time: Jan 10 01:48:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Jan 10 00:31:30 2025
Response via : Initial Calibration

